



Water Solutions



DesaliTecTM SOAR CCRO



The Future Beckons

- Higher Recoveries
- Lower Costs
- Best Peace of Mind

What's in Our DNA

- 100+ Patents
- 250 + Installations
- 20+ Industries
- 6 Continents
- 1 DuPont Water Solutions Portfolio



Saveguard

Avoid the downfalls of traditional reverse osmosis and thrive where others fail. DesaliTec™ patented CCRO process provides unprecedented performance and is trusted by Fortune 500 companies for their critical water purification and reuse needs.



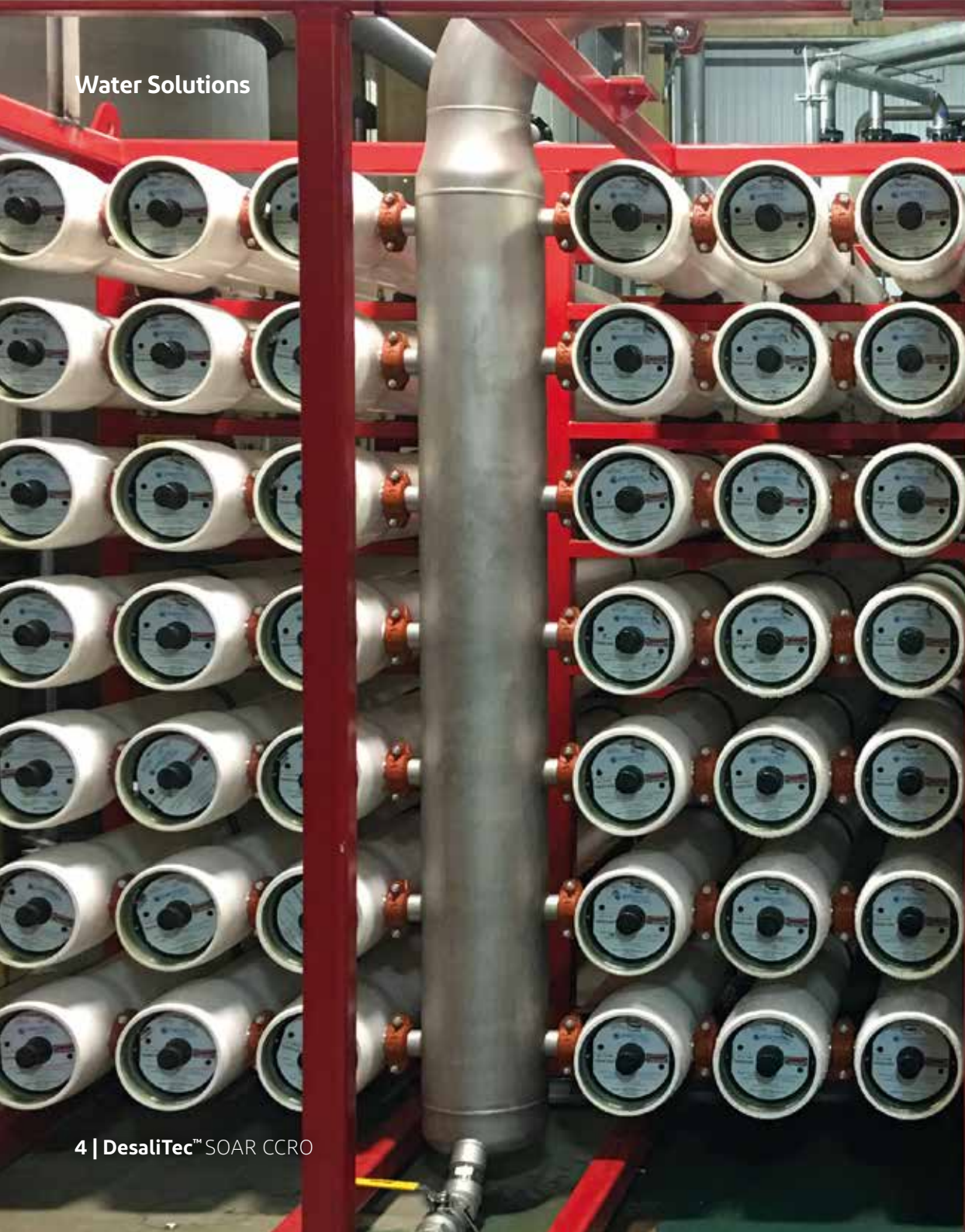
Streamline

Simplify your water treatment operations with unmatched flexibility and robustness. DesaliTec systems are easy to operate and automatically adapt to a wide range of changing water conditions, requiring less maintenance and oversight.



Save

Reap the rewards of unparalleled efficiency with a predictable and rapid Return On Investment (ROI). DesaliTec guarantees maximum water recovery, reduces waste and energy use, and provides service and maintenance cost savings.



DesaliTec™ SOAR Reverse Osmosis

DesaliTec™ CCRO systems offer the versatility of a tunable RO design with a piece of mind of industry leading DuPont suite of FilTec™ membranes.

DesaliTec clients around the globe rely on the consistent performance and ease of operation of their DesaliTec SOAR solutions, saving significant costs through reduced maintenance, maximum water recovery rates and lower energy consumption.

DesaliTec offers standardized CCRO systems to meet the requirements of most industrial applications.

DesaliTec offers SOAR Max systems, designed for Zero Liquid Discharge (ZLD) and sea water applications.

DesaliTec offers customized SOAR MAX systems, designed to operate at pressures upto 120 barg to achieve minimum liquid discharge and zero liquid discharge applications.





Benefits

Flexibility

DesaliTec™ SOAR CCRO systems automatically adapt to changing feedwater and allow the operator to modify recovery, cross flow, and flux in real time.

Reliability

DesaliTec SOAR CCRO systems naturally mitigate the fouling and scaling that typically plagues reverse osmosis systems. Automated operation with online monitoring provides additional protection.

Maximum Recovery

DesaliTec SOAR CCRO systems come with an industry-leading maximum recovery guarantee, operating at up to 98% recovery and allowing you to achieve your sustainability goals.

Energy Savings

DesaliTec SOAR CCRO systems apply the optimal pressure to keep constant permeate flow, reducing average energy consumption by up to 35%.

Return On Investment

DesaliTec SOAR CCRO systems minimize the largest cost associated with reverse osmosis system operation, wastewater disposal, which can be reduced by 50% to 75% and provide paybacks of under a year.

Our customers
are trusting
us with their
toughest
challenges



“Water recovery from concentrate is becoming more feasible as the cost of membrane treatment technologies has dropped and the value of water has increased. OCWD is proud to be a part of this cutting-edge research project which will provide critical data to support advancements in water reuse and treatment.”

Operations Team
Orange County Water District

Primary Applications



Pure Water Supply



Boiler Feed Water



Cooling Tower Makeup



Ingredient Water



Process Water

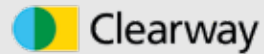


Desalination



Water Reuse

Client Examples



“Water is a critical commodity and a depleting resource in California. As one of the top water consumers in San Francisco, it is essential for us to do our part to minimize our impact to the city. The BART groundwater recovery system helps us do that while continuing to provide exceptional service to our district energy customers.”

Gordon Judd

General Manager, Clearway Energy Center San Francisco



“The DesaliTec closed circuit process is the first major change we’ve seen in RO in decades. It works for us in practice and we fully endorse it.”

Mark Carroll

Water & Wastewater Engineer, Class 4 Industrial Treatment License and Class A Municipal License, Archer Daniels Midland



“I would recommend DesaliTec RO systems to anyone who is trying to achieve a high recovery and maintain good quality in their finished product water.”

Asif Hasan

Ph.D., Environmental Engineer, Doubletree Paper Mill



“While the water and dollar savings were important, the reliability benefits might be the greatest positive. When the mobile trailers were exhausted, the plant couldn’t run. You are at the mercy of the vendor to send you the trailers. With CCRO you are manufacturing your own water, so there should not be any interruption.”

Kishore Billapati

P.E., Senior Manager Engineering, Edison International SCE Generation Asset Management



“The CCRO is extremely easy to operate and it’s user friendly. I would recommend it to anyone who needs high recovery, minimal man hours and low cost.”

Steven Doggit

Lead Operator, Mid-American Steel and Wire



“We had some bad experience with traditional RO as far as maintenance costs and having to replace the membranes at a frequency of six months to twelve months. Our DesaliTec unit has been in service for a year and there’s no indication that it even needs to be cleaned yet.”

David Ivy

Utilities Supervisor, Lion Elastomers



About us

Water scarcity is now a global problem. Growing water demand and excessive consumption of water is increasing with population and technology adoption. World experts advise that these water challenges will only get worse without improved water efficiency, reuse, and desalination.

DesaliTec™ SOAR CCRO systems are innovative solutions that forward-thinking users employ to address their water challenges. They are rapidly replacing traditional water purification methods due to their high reliability, efficiency, and economic value proposition.

DesaliTec industrial and municipal clients around the globe rely on DesaliTec SOAR Smart systems for their critical water needs and are guaranteed maximized water recovery rates of up to 98%, reduced energy consumption of up to 35%, and maintenance cost reductions of up to 20%.

DesaliTec is headquartered in Newton, Massachusetts, USA and was the proud recipient of the 2016 Breakthrough Water Technology Company of the Year award from Global Water Intelligence.



Picture credits: Adobestock, iStock, DuPont



Water Solutions

www.dupontwatersolutions.com

© 2021 DuPont. DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted.

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

October 2021
Form No.: 45-D03611-en